

10. On the Actinogonidiate Echinoderms collected by  
Mr. J. Stanley Gardiner at Funafuti and Rotuma.  
By F. JEFFREY BELL, M.A., F.Z.S.

[Received October 13, 1898.]

The Echinoderms, other than Holothurian forms, collected by Mr. Stanley Gardiner do not present so many points of interest as those to which Mr. Bedford's paper is devoted (see p. 834). I very much regret that the recent demands on my time prevented me from availing myself as fully of Mr. Gardiner's kindness as I at first hoped, but I am glad to have been able to introduce Mr. Bedford to original systematic work.

I. CRINOIDEA.

The only Crinoid obtained was an *Actinometra* from the outer part of the reef at Rotuma, which I have not been able to specifically determine.

II. ASTEROIDEA.

The only Asteroids collected were *Culecita grex* M. Tr.; *Gymnasterias carinifera* Lamk.; *Ophidiaster cylindricus* Lamk., which was taken both at Rotuma and Funafuti; and a number of most interesting and instructive examples of the 'comet-form' of *Linckia* (probably both *L. multiforis* and *L. miliaris*) from Rotuma, which will be of great service to workers at this extraordinary means of reproduction.

III. OPHIUROIDEA.

The species found were all common and well-known:—

1. *Pectinura gorgonia* M. Tr. Rotuma.
2. *Ophiolepis cincta* M. Tr. Rotuma.
3. *Ophioplocus imbricatus* M. Tr. Rotuma.
4. *Ophiactis savignii* M. Tr. Funafuti, outer reef.
5. *Ophiocoma erinaceus* M. Tr. Funafuti, outer reef.
6. „ *scolopendrina* Ag. Funafuti, outer reef, and also Rotuma.
7. *Ophiarthrum elegans* Peters. Rotuma.
8. „ *pictum* Lyman. Rotuma.

IV. ECHINOIDEA.

These also are common reef-species:—

1. *Cidaris metularia* Lamk. Rotuma.
2. *Echinothrix diadema* L.<sup>1</sup> Rotuma and Funafuti.
3. *Triploneustes variegatus* Leske. Rotuma.

<sup>1</sup> See Lovén, Bih. Sv. Vet.-Akad. Hdlgr. xiii. 4, no 5, p. 137.

4. *Echinometra lucunter* Leske. Rotuma and Funafuti, lagoon, 15-25 fms.
5. *Echinometra oblonga* de Bl. Funafuti, lagoon, 15-25 fms.
6. *Heterocentrotus mammillatus* Leske. Funafuti.
7. *Echinoneus cyclostomus* Leske. Funafuti, lagoon, 18 fms., and Rotuma.
8. *Laganum depressum* Less. Funafuti, lagoon, 15-25 fms.
9. *Maretia planulata* Lamk. Funafuti, lagoon, 15-25 fms.
10. *Brissus unicolor* Leske. Rotuma, reef.

It will be seen that all the species are common and widely distributed, and that there is no occasion to dilate at any length on the subject.

## 11. On a new Antelope of the Genus *Hippotragus*.

By OSCAR NEUMANN.<sup>1</sup>

[Received November 1, 1898.]

I propose to designate a new geographical form of the Roan Antelope (*Hippotragus equinus*) from East Africa by the name of:—

### HIPPOTRAGUS RUFO-PALLIDUS, sp. nov.

General markings as in *H. equinus*, but the colour without any brownish or greyish tints, being of a pale reddish, lighter in some specimens and more red in others, but never of a dark red as in the West-African form.<sup>2</sup>

The legs of *H. rufo-pallidus* are of a dark reddish colour, the oldest specimen in my collection having black markings on the legs. The base of the tail is black, this colour extending to the hind part of the back. The ears are tufted, but the hairs are not so long as in *H. bakeri*.

*Hab.* German and British East Africa.

I believe that all the Roan Antelopes mentioned from German and British East Africa (Uganda Protectorate), also that which Mr. Hinde shot at Machako's (cf. de Winton, P.Z.S. 1898, p. 127), belong to this species. I am, however, of opinion that the Antelope is very rare in these countries, as I met with it only on one occasion during the two years of my travels in East Africa. This was a herd, out of which I shot five specimens, unfortunately all females, on the 24th September, 1893, on the upper part of the River Bubu, about halfway between Irangi and Mount Gurui. When approached the herd did not make off at full speed but

<sup>1</sup> Communicated by the Secretary.

<sup>2</sup> I am quite of the opinion of Herr Matschie that it is impossible to attribute the *Antilope kob* of Erxleben to a *Hippotragus*, as it must be either an *Adenota* or a *Bubalis*. The original French description of Buffon indicates a *Bubalis*, while the plate represents an old *Adenota kob*, and the plate of *Antilope kob* depicts a young specimen of the same animal.